

CLAIMS

1. A drive apparatus for performing a pseudo-overwrite recording for a write-once recording medium, wherein
 - the write-once recording medium includes a spare area and a user data area,
 - at least one track are allocated in the user data area,
 - the drive apparatus comprising:
 - a recording/reproduction section for performing a recording operation or a reproduction operation for the write-once recording medium; and
 - a drive control section for controlling the recording/reproduction section,
 - wherein the drive control section performs a process including:
 - receiving a recording instruction including a location at which data is to be recorded;
 - determining a track among at least one tracks corresponding to the location included in the recording instruction;
 - controlling the recording/reproduction section to record data at a replacement location in the user data area instead of the location included in the recording instruction;
 - determining whether or not the recording of the data at the replacement location in the user data area has succeeded; and
 - when the recording of the data at the replacement location in the user data area has failed, controlling the recording/reproduction section to record the data at a location in the spare area.

2. A drive apparatus according to claim 1, wherein

the drive control section performs a process further including:

determining whether or not the recording of the data at the location in the spare area has succeeded; and

when the recording of the data at the location in the spare area has failed, controlling the recording/reproduction section to record the data in the spare area until the recording of the data in the spare area has succeeded.

3. A drive apparatus according to claim 1, wherein the determined track is an open track.

4. A drive apparatus according to claim 1, wherein the determined track is a closed track having an unrecorded area.

5. A drive apparatus for performing a pseudo-overwrite recording for a write-once recording medium, wherein

the write-once recording medium includes a spare area and a user data area, the drive apparatus comprising:

a recording/reproduction section for performing a recording operation or a reproduction operation for the write-once recording medium; and

a drive control section for controlling the recording/reproduction section, wherein the drive control section performs a process including:

generating replacement management information including an original location and a replacement location; and

controlling the recording/reproduction section to record the replacement management information in the write-once recording medium,

wherein:

when the replacement for the purpose of the pseudo-overwrite recording occurs, the drive control section sets a first range of value to the replacement location of the replacement management information; and

when the replacement for the purpose of recording due to defect occurs, the drive control section sets a second range of value to the replacement location of the replacement management information.

6. A drive apparatus according to claim 5, wherein
the first range is a range of the user data area, and
the second range is a range of the spare area.